

## ABSTRACT OF THE DISCLOSURE

A queue descriptor including a head pointer pointing to the first element in a queue and a tail pointer pointing to the last element in the queue is stored in memory. In

5 response to a command to perform an enqueue or dequeue operation with respect to the queue, fetching from the memory to a cache only one of either the head pointer or tail pointer and returning to the memory from the cache portions of the queue descriptor modified by the operation.

[illegible]